

## Sadie L. Iverson

### EDUCATION

- 2010- Ph.D. Ecology, Evolution, and Marine Biology, The University of California, Santa Barbara
- 2005-2007 M.S. Soil, Water, and Environmental Science, The University of Arizona, Tucson, AZ
- 2001-2005 B.S. in Environmental Science (Honors) with Chemistry minor, The University of Arizona, Tucson, AZ

### RESEARCH AND TEACHING EXPERIENCE

- 2010- Graduate Research Assistant, The University of California, Santa Barbara. The changing seasonality of Arctic ecosystems. Supervisor: Dr. Joshua Schimel
- 2006-2008 Graduate Research Assistant/Research Specialist, The University of Arizona. Fluorescence *in situ* Hybridization (FISH) Analysis of Roots to Examine Bacterial Colonization During Phytostabilization of Mine Tailings. Supervisor: Dr. Raina M. Maier
- 2005-2006 Graduate Teaching Assistant, The University of Arizona. NATS 101: Introduction to Environmental Science
- 2004-2005 Undergraduate Research Assistant, The University of Arizona. Identification and Denaturing Gradient Gel Electrophoresis Analysis of Culturable Bacteria in Mine Tailings. Supervisor: Dr. Raina M. Maier.
- 2003 Undergraduate Research Assistant, Northern Arizona University. Rhizosphere effects in arid mine tailings. Supervisor: Dr. Nancy C. Johnson
- 2002 Undergraduate Preceptor, The University of Arizona. INDV 102: Human Geography and Global Systems

### PUBLICATIONS

- Iverson, S.L., and R.M. Maier. 2009. Compost effects on colonization of roots of plants grown in metalliferous mine tailings as examined by fluorescence *in situ* hybridization. *Appl. Environ. Microbiol.* 75: 842-847.
- Rosario, K., S.L. Iverson, D.A. Henderson, S. Chartrand, C. McKeon, E.P. Glenn, and R.M. Maier. 2007. Bacterial community changes during plant establishment at the San Pedro River mine tailings site. *J. Environ. Qual.* 36: 1249-1259.

### SEMINAR PRESENTATIONS

- "Fluorescence *in situ* Hybridization for the Visualization of Plant Growth-Promoting Bacteria in Mine Tailings," Superfund Basic Research Program, University of Arizona division, Feb. 15, 2007.
- "Fluorescence *in situ* Hybridization for the Visualization of Plant Growth-Promoting Bacteria in Mine Tailings," University of Arizona Dept. of Soil, Water, and Environmental Science seminar, Apr. 23, 2007.

### CONFERENCE PROCEEDINGS

- Maier, R.M., J. Chorover, S.L. Iverson, and S.M. Hayes. 2009. Combined FISH, u-XRF and SEM analysis to examine microbe-metal interactions on root surfaces. Goldschmidt Conference for Geochemistry, Davos, Switzerland, June 21-26.
- Hayes S.M., S.L. Iverson, K.L. Runtzel, C.J. Grandlic, R.M. Maier and J. Chorover. 2008.

Phytostabilization of arid mine tailings: a collaboration of field study, geochemistry and environmental microbiology. Annual NIEHS Superfund Basic Research Program Meeting, Pacific Grove, CA, Dec. 7-9.

Iverson, S.L., and R.M. Maier. 2007. Fluorescence In Situ Hybridization (FISH) Analysis of Roots to Examine Bacterial Colonization During Phytostabilization of Mine Tailings. Annual NIEHS Superfund Basic Research Program Meeting, Durham, NC, Dec. 3-5.

Iverson, S.L., C.J. Grandlic, and R.M. Maier. 2007. Fluorescence In Situ Hybridization for the Visualization of Plant Growth-Promoting Bacteria in Mine Tailings. Scientific Symposium: Translational Studies in Environmental Health, Tucson, AZ, Apr. 4.

Iverson, S.L., C.J. Grandlic, and R.M. Maier. 2007. Fluorescence In Situ Hybridization for the Visualization of Plant Growth-Promoting Bacteria in Mine Tailings. U.S.-Mexico Binational Center for Environmental Sciences and Toxicology Inaugural Ceremony and Global Environmental Health Workshop, Tucson, AZ, Mar. 12-14.

Iverson, S., K. Rosario, and R.M. Maier. 2005. Limitations on Denaturing Gradient Gel Electrophoresis Analysis of Bacterial Diversity in Mine Tailings. Undergraduate Biology Research Program 16th Annual Conference, Tucson, AZ, Jan. 29.

#### AWARDS AND HONORS

- 2010 University of California, Santa Barbara, Doctoral Scholars Fellowship
- 2006 Superfund Basic Research Program Trainee, The University of Arizona
- 2005 Outstanding Senior, Dept. of Soil, Water, & Environmental Science, The University of Arizona
- 2004 Undergraduate Biology Research Program, The University of Arizona
- 2003 Research Experience for Undergraduates, National Science Foundation
- 2004 Golden Key International Honour Society, The University of Arizona
- 2003 Alpha Zeta professional fraternity, The University of Arizona
- 2001 National Merit Scholar, The University of Arizona

#### COMMUNITY SERVICE

- 2009-2010 Volunteer, Interpretation, Channel Islands National Park, Ventura, CA
- 2009- Volunteer Coordinator/Participating Volunteer, The Surfrider Foundation, Ventura County Chapter